




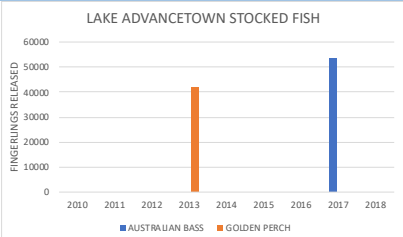
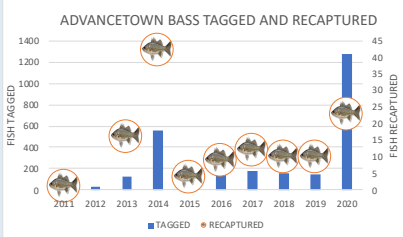
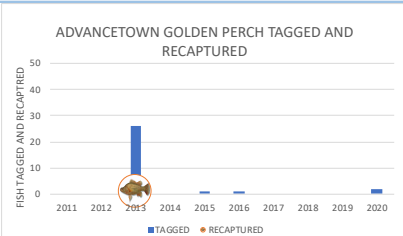
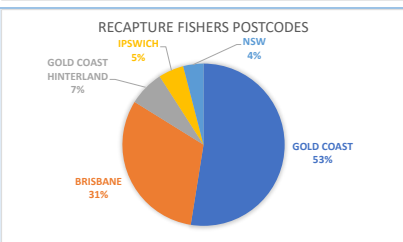
LAKE ADVANCETOWN
AUSTRALIAN BASS AND GOLDEN PERCH 2011-2020
2020 REVIEW



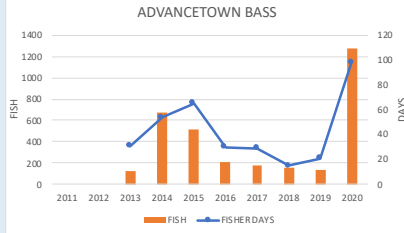
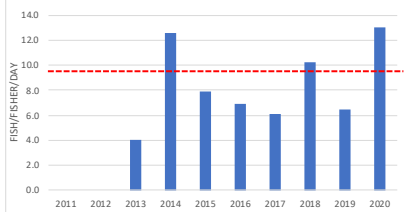
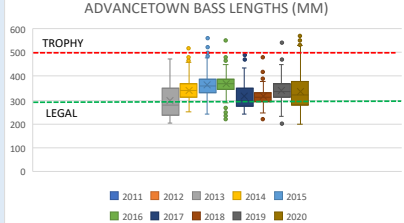
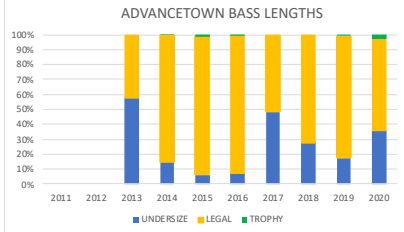
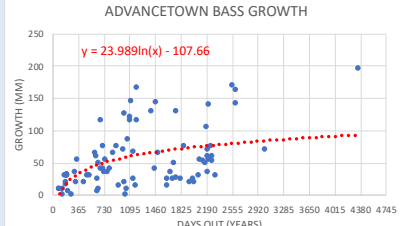
AVAILABLE		AVAILABLE	
Dam capacity	✓	Storage level	✓
Stocked fish numbers	✓	Bathymetry	
Tagged fish	✓	Recaptures	✓
Postcodes	✓	Competitions	
Species		Australian Bass	
Catch rates	✓	Fish sizes	✓
Growth	✓	Survival	✓
Tag locations	✓	Fish Movement	✓
Species		Golden Perch	
Catch rates		Fish sizes	
Growth		Survival	
Tag locations		Fish Movement	

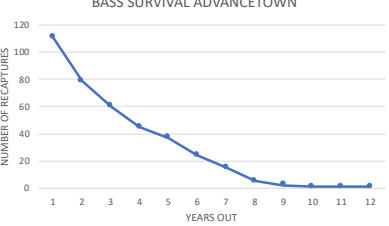
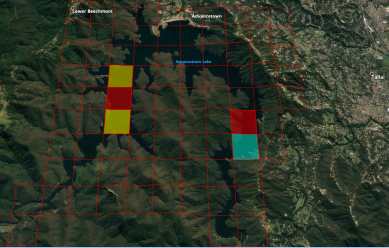
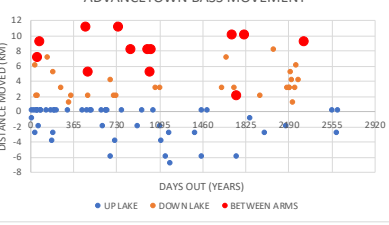
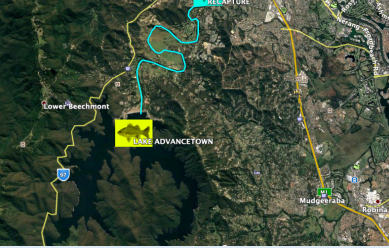
Summary







- Fishing in the lake is limited to electric motors only
- Dam level on 28 Dec 2020 was 101.2%
- From 2011-2018 there were 53K Bass and 42K Golden Perch fingerlings released
- From 2011-2020 there were 2,846 Bass tagged for 127 recaptures (4.5%) while there were just 30 Golden Perch tagged for 1 recapture (3.3%)
- The Bass catch rate in 2020 was 13.0 fish/fisher day which was above the average historic catch rate of 9.5 fish/fisher day and the highest catch rate over the past 10 years but was influenced by large catches of 20+ fish on 18% of trips using bait
- The Bass average length in 2020 was 336mm and ranged from 200-570mm
- The percentage of legal Bass in 2020 was 60.8% with 3.3% trophy fish 500mm and over being the highest percentage of trophy fish in the last 10 years
- Over the past 10 years most Bass have been tagged in ADV map grids C32, C31, C33 in the western arm and H33 and D30 in the eastern arm
- Annual Bass growth calculated from tag recaptures at the end of year 1 is 34mm and at the end of year 5 is 72mm
- Of the 92 fish recaptured over the past 10 years only 2 has been recaptured outside the impoundment below the dam in the Nerang River
- Based on postcodes of fishers recapturing fish most were from the Gold Coast (53%), Brisbane (31%) and the Gold Coast Hinterland (7%)
- There were 4 fish recaptured by fishers with postcodes outside Queensland with all from just over the border in NSW

Infish Australia
 March 2021

LAKE ADVANCETOWN	LOCATION	BATHYMETRY
		
MEASURE	ACTUAL	GRAPH or MAP
Surface area Lake capacity	Surface area 18.0km ² Level at 28 Dec 2020 101.2% For latest level https://www.seqwater.com.au/historic-dam-levels	
Fingerlings stocked 2011-2018	TOTAL BASS 53,371 TOTAL GOLDEN PERCH 42,000	
Bass tagged and recaptured 2011-2020	TAGGED RECAPTURED 2846 127 RECAPTURE RATE 4.5%	
Golden Perch tagged and recaptured 2011-2020	TAGGED RECAPTURED 30 1 RECAPTURE RATE 3.3%	
Postcodes of recapture fishers 2011-2020	Recaptures 111 Region Fishers Gold Coast 53% Brisbane 31% Hinterland 7% Ipswich 5% NSW 4%	

ADVANCETOWN			AUSTRALIAN BASS	
				
MEASURE	ACTUAL			GRAPH or MAP
Catch and effort number of fish fisher days T20 fishers (taggers) 2011-2020	HIGHEST	LOWEST	NOW	
	CATCH			
	2014	2019	2020	
	679	135	1273	
	EFFORT			
	2015	2018	2020	
	65	15	98	
Catch rate Fish/fisher day 2011-2020	HIGHEST	LOWEST	NOW	
	CATCH RATE			
	2014	2017	2020	
	12.6	6.1	13.0	
	10 YEAR AVERAGE		9.5	
Average length (mm) Bars show smallest and largest fish 2011-2020	HIGHEST	LOWEST	NOW	
	2016	2013	2020	
	367	296	336	
	LARGEST			
	2015	2013	2020	
	565	475	570	
Fish lengths percentage Undersize <300mm Legal 300-499mm Trophy 500+mm 2011-2020	HIGHEST	LOWEST	NOW	
	LEGAL			
	2015	2013	2020	
	92.8	42.4	60.8	
	TROPHY			
	2015	2018	2020	
	1.2	0	3.3	
Bass growth at end of each year based on all recaptures	Recaptures	86		
	GROWTH			
	Year 1	34mm		
	Year 2	50mm		
	Year 3	60mm		
	Year 4	67mm		
	Year 5	72mm		

Bass survival based on recaptures by years out after tagging	Survival rate by years out Year Recaptures 1 111 5 37 10 1 Longest time out (years) 11.9 1	
Grid locations of tagged fish 2011-2020	Grids where most fish caught GRID FISH C32 695 C33 281 C31 279 H33 174 D30 135	
Bass movement in lake 2011-2020	Recaptures 92 Recaptured same area 28 (30.4%) Up lake Down lake 21 28 Between arms 13	
Bass recaptured outside impoundment 2011-2020	Below dam Nerang River 2 Above lake 0	

ADVANCETOWN		GOLDEN PERCH
		
MEASURE	ACTUAL	GRAPH
All measures 2011-2020	Insufficient data Fish recorded 30 Recaptures 1	
  Product of Infish Australia		  Supported by Suntag and FFSAQ

Data sources

Data used in the Impoundment Crystal Bowl are:

- Tag records and recapture records for the impoundment at <http://crystalbowl.infishaustralia.com.au/>
- Dam level data from SEQwater at <https://www.seqwater.com.au/historic-dam-levels>
- Bathymetric data from Infish surveys or other sources

Basis for analysis

- Catch rates calculated as number of fish tagged/fisher/day for T20 fishers (taggers) with a minimum of 12 fisher days (at least 1 per month) to provide a reliable catch rate
- Undersized fish are <300mm, legal fish are ≥300 and <500mm and trophy fish are ≥500mm
- Growth calculated using logarithmic curve from recaptures where fish were out for 90 days or more and had positive growth
- Locations based on Infish grid map ADV for the impoundment and other grid maps where fish were recaptured outside the impoundment
- Distance moved was the shortest distance by water between the tag and recapture location measured in Google Earth